

**6DK6****SHARP-CUTOFF PENTODE**

7-PIN MINIATURE TYPE

6DK6**DATA****Electrical:**

Heater, for Unipotential Cathode:

Voltage 6.3 ac or dc volts

Current 0.3 amp

Direct Interelectrode Capacitances: 0

Grid No.1 to plate 0.02 max. μ fGrid No.1 to cathode, grid No.3 &
internal shield, grid No.2, and
heater 6.3 μ fPlate to cathode, grid No.3 & internal
shield, grid No.2, and heater. 1.9 μ f**Characteristics, Class A₁ Amplifier:**

Plate-Supply Voltage 125 volts

Grid-No.3. *Connected to cathode at socket*

Grid-No.2-Supply Voltage 125 volts

Cathode Resistor 56 ohms

Plate Resistance (Approx.) 0.35 megohm

Transconductance 9800 μ hos

Plate Current 12 ma

Grid-No.2 Current 3.8 ma

Grid-No.1 Voltage (Approx.) for
plate μ a = 20. -6.5 volts**Mechanical:**

Operating Position Any

Maximum Overall Length 2-1/8"

Maximum Seated Length 1-7/8"

Length, Base Seat to Bulb Top (Excluding tip). 1-1/2" \pm 3/32"

Diameter 0.650" to 0.750"

Dimensional Outline. *See General Section*

Bulb T5-1/2

Base Small-Button Miniature 7-Pin (JEDEC No.E7-1)

Basing Designation for BOTTOM VIEW 7CM

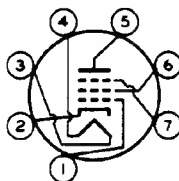
Pin 1-Grid No.1

Pin 2-Cathode

Pin 3-Heater

Pin 4-Heater

Pin 5-Plate



Pin 6-Grid No.2

Pin 7-Grid No.3,
Internal
Shield**AMPLIFIER — Class A₁****Maximum Ratings, Design-Maximum Values:**

PLATE VOLTAGE 330 max. volts

GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE. 0 max. volts

GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE 330 max. volts

0: See next page.

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GRID-No.2 VOLTAGE.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section	
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive-bias value.	0 max.	volts
GRID-No.2 INPUT:		
For grid-No.2 voltages up to		
165 volts.	0.55 max.	watt
For grid-No.2 voltages between		
165 and 330 volts.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section	
PLATE DISSIPATION.	2.3 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with		
respect to cathode	200 max.	volts
Heater positive with		
respect to cathode	200 [▲] max.	volts
Maximum Circuit Values:		
Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.25 max.	megohm
For cathode-bias operation	1 max.	megohm
[○] Without external shield. [▲] The dc component must not exceed 100 volts.		



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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS
GRID N°3 CONNECTED TO
CATHODE AT SOCKET.
GRID-N°2 VOLTS = 125

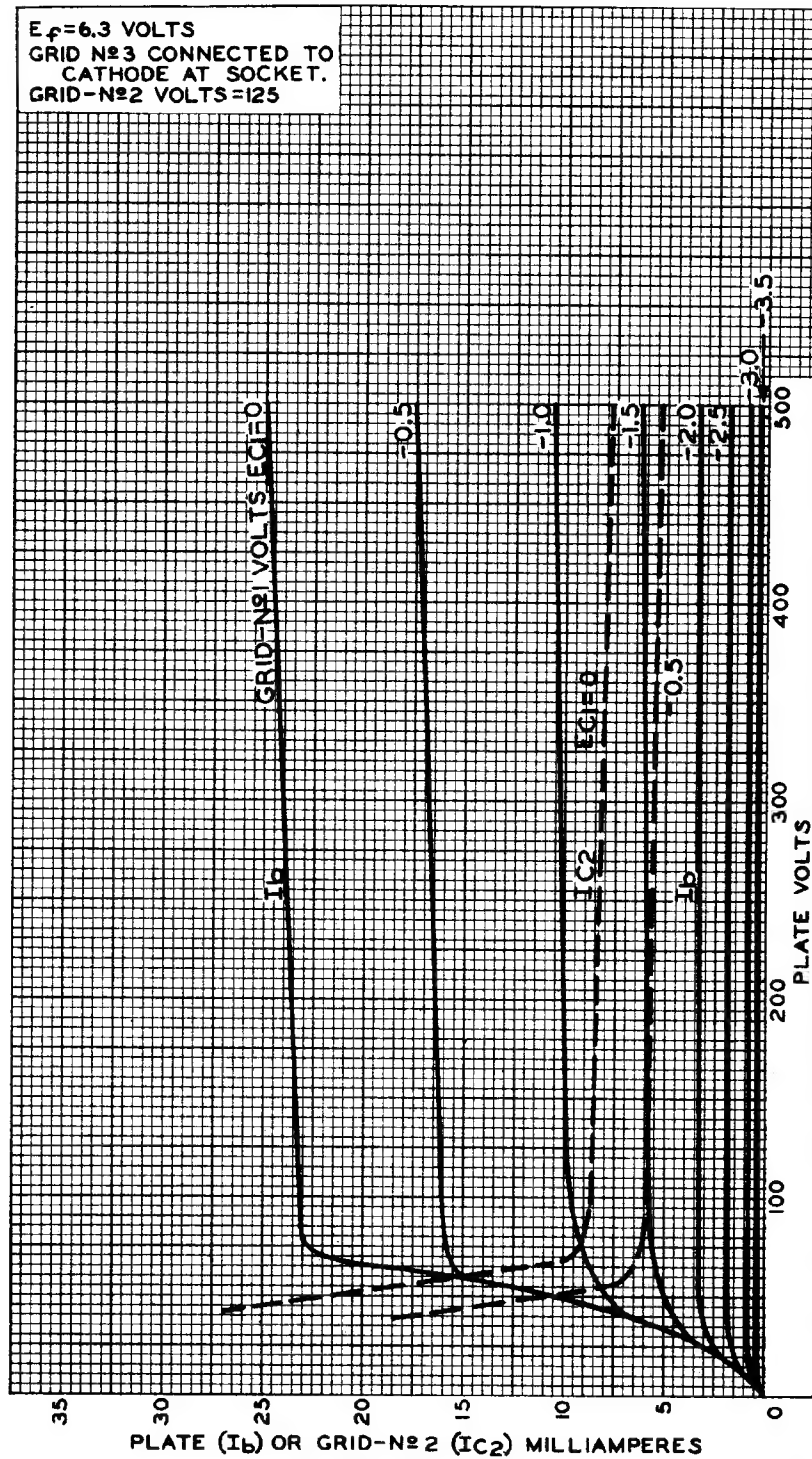


PLATE (I_b) OR GRID-N°2 (I_{C2}) MILLIAMPERES

ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9851R1

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AVERAGE CHARACTERISTICS

